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ABSTRACT

Designed to offer individuals in the role of unit leaders some guidelines for assuming the leadership role in planning inservice education for members of the school staff, the booklet provides information on learning styles, assessment of learning style, sample rating scale, developmental tasks and education, teacher observations, directed classroom observations, provision for learning styles inventory, and a glossary. Learning styles are first discussed in terms of individualization of instruction. In order to identify learning styles, the teacher is said to need to focus on what is learned, the way in which one learns, and one learns to learn. Four tests are suggested to be used by the unit leader and teachers in helping to make an educational evaluation of the child. Guidelines questions are then provided to help the leader determine how the child learns and how the leader gets the child's attention. Developmental tasks are then listed from infancy to 65 years and over. A sample learning style inventory is included. (CB)

LEARANIC STYLES

A Booklet for Unit Leaders,
Teachers, Administrators
and other interested
Professionals.

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FOREWORD

The purpose of this booklet is to offer to those individuals in the role of "unit leaders" some guidelines for assuming the leadership role in planning inservice education for members of the school staff. These staff members may be serving in professional or paraprofessional capacities.

During the period of time we have been involved in working with teachers and paraprofessionals, many other professionals have in some way contributed to our professional growth. From them we have learned a great deal about children and have attempted to provide the programs which are so necessary in order to meet the individual needs of children. It is hoped that this booklet will document some of the knowledge and information we have acquired on LEARNING STYLES, and will give the unit leaders a place to start in their search for practical information on methods and techniques used in determining learning styles.

Jean Sanders Linda Zalk

LEAFNING STYLES

SCOPE AND PURPOSE

Learning styles are discussed in the context of the central problem of education -- the individualization of instruction. Within the traditional selfcontained classroom, a narrow range of instructional options is provided, a limited number of ways to succceed are available. Alternative paths that can be selected for students with various learning styles and characteristics are restricted according to Glaser. "The limited paths available require particular student abilities, and these particular abilities are emphasized and fostered to the exclusion of other abilities." When we design only a relatively fixed set of instructional alternatives we are rewarding and reinforcing only a limited set of behaviors and a "wide range of background capabilities and talented accomplishments might be lost from view because of the exclusive reliance upon selection for survival in a particular setting."

IGE offers a possibility to adapt educational environments to various learning styles (one type of individual difference). However, learning style is not synonymous with individual differences and should not be used as another excuse for grouping children "homogeneously". In IGE, one outcome is the "degree to which the following are considered when students are assigned to learning activities:

- * peer relationships
- * achievement
- * learning style
- * interest in subject area
- * self-concept."

The educational environment can provide for a wide range and variety of instructional processes and opportunities for success. Alternative means of learning are adaptive to the individual's strengths and weaknesses to derive an appropriate "learner/materials" match. The success of the teacher's diagnostic planning can be seen in the extent to which the student experiences a match between his unique abilities and interests, and the activities prescribed for him.

The teacher, in order to identify learning styles, should focus upon:

- * what is learned
- * the way in which one learns, and
- * one learns to learn

The I/D/E/A filmstrip on performance testing and observation, the Wisconsin Design filmstrip on the same topic, and the I/D/E/A pamphlet on Learning Styles are invaluable resources for this area of study. In addition, the next two pages on educational testing will offer some ideas as well as the bibliography to this paper.

ASSESSMENT OF LEARNING STYLE

Performance testing and observation are by far the best ways to determine a pupil's learning style. Various checklists, such as those included in this booklet, are helpful to the teacher in establishing criteria to determine learning styles. Self-assessment instruments and interest inventories are often very revealing.

The following tests are suggested to be used by the Unit Leader and teachers in helping to make an educational evaluation of the child. This list in no way precludes the use of other similar tests, nor does it intimate that all of these tests are used with every child. The decision to use various tests will be determined by the Unit Leader and teachers who will consider (1) test information already available on the pupil; (2) the type of information desired; (3) the preferences of the professional staff.

Psychoeducational Inventory of Basic Learning Disabilities (Robert Valett) Fearon Publishing Company

Mills Learning Methods Test Mills Center, Ft. Lauderdale, Florida

Pupil Behavior Rating Scale (Myklebust: Grune and Stratton)

Evanston Early Identification Program (Follett)

ASSESS FOR OF THE FRITING STYLE

Measures of individual differences within an IGE framework are evalid to the extent that to define alternate paths that rotall in optimizing immediate learning, as well as long-term success. We must reflect whether the particular selective tests and sorting out devices that we presently use fail to consider abilities and talents that might emerge as important in a more interactive environment where the teacher allows for adjustment between abilities and modes of learning and learning styles. Instead, we need to locate measures that will:

- * determine the different ways in which different students learn best
- * measure basic processes that underlie various kinds of learn-ing
- * assess prerequisite performance capabilities required to learn a new task or skill
- * determine who will learn better from one curriculum or method of learning than from another

SAMPLE RATENG SCALE

CHOUPING IN SOCIAL STUDIES*

Manae of Pupil		Date	
UnitTeacher	gadan was ningedayikkin are are are also been a	ngaradhir ngulif r Chilliannia an	
	Always	Sometimes	Never
One to one instruction			
Pairing with Other Child			
Small Group with Adult			5
Small Group without Adult			
		j.	i

"Source

Independent

Performance Testing and Observation. I/D/E/A-Kettering filmstrip.

HOW DOES HE LEADING

Dr. H. Czer Children's Hospital, Washington, D.C.

٦		2	3	24	5
Always Ineft:		Usually Inoffective	Erfective 1/2 the time	Usually Effective	Always Effective
ı.	How effe	etive would m ws be in help	otor, kinesthet ing him to lear	ic and tacti n when:	l.e
	thir the ing, the to t	ng by direct e task involves, hopping, cla binesthetic s teach cutting,	dle and learn h xperience with body movement pping, skipping ystem of moveme pasting, formi f form, shape, ht are made by	it. such as clim , rhythms nts are used ng letters texture, siz	b- e,
II.		ective would cones to learning	ombined visual g be when:	and auditory	•
	sma:	ll step at a t h task	has explained vince before he red odo, waits to	esponds in	
	expo	ected; or, is have it explai is asked to fo ning material	shown what to d ned llow verbal dir seen when the t	o then needs ections con- ask is famil	iar
	he :	is asked to le	earn a new task that is being ex	datekth ph 1	`ol-
III.		ective would v l be when:	visual presentat	ions of new	
	per tas it era vis dis new	form simple or ks without audis a simple vitions and has ual directions ariminations areask must seek and	are removed, to see to two step for the second seco	Tamiliar visuo or three of ted and fine visuo completing and from an uni	pp- ual .

multiple operations.

HOW DOUS 'US LEARN? continued

.vr.	How effective would auditory-verbal methods alone be when:
	he is asked to identify objects, pictures, colors, forms, letters, sounds by name the task has a two or three part verbal direc- tion to be completed quickly he is read to and asked to understand and re- member in sequence the stories heard he is asked to understand the main idea from a spoken or read paragraph composed of complex

Dew loyed by Po. Mark Open Children's Hespital Washington, P.C.

Please indicate response by assigning a number from the scale to D/CH of the few parts of every question.

HON DO AON COM HIS MACH MIOUS

I.	How of	Protive are the	ese ways of get	ting his att	en-
	<u> </u>	pluding one helding his cholding his h	and on his hand hin so that he and, putting an	faces you.	
	<i>*</i> ,	or seating hi touching him	m next to you ent nearby to a		•
	 	touching him	eno necitor oo d	acto min by	
II.	volvem	ent, how effec help him phys train him to	n his attention tive would it be ically to responsive an immediate to stimulus or re	e to: nd te motor re-	
	с.	demonstrate t	he desired motor		
	d.		ss to give a realerned (sit up		
III.	How ef	fective would :	it be to alert 1	nim visually	bv:
	a.	decreasing vi: creasing the	sual distraction interest value (ns and in-	
	<u>b</u> .	presented directing mater: such as on his	ial directly in	front of him	î1 ,
	c.	pointing direc	etly at the thir	ng to which l	he
	d.	placing mater:	which is at some lal within his r on a chart, hel	range of vis:	
IV.	If you means,	wanted to gair how effective	his attention would it be to:	by auditory	
	b.	call his name	to him at clos	•	
	c.	use on alertir use a bell or	ng stimulus - "I mon on table	look", "Liste	en",
	d.	give verbal di	rections to the	group	
1		2	3	1	5
Always Inoffo	etive	Usually Ineffective	Elfective 1/2 the time	Usually Effective	Always Effective
	• ·-	The first term of the term of	ay i. O. ii. O.Lino	111 T CO ON A C.	THE TOOLAG

X - Don't know: have never tried this

DEVELOPMENTAL TASKS AND EDUCATION

Robert J. Havighurst
Second Edition
Longmans, Green and Co.
New York . London . Toronto
1952

"A develormental tack is a task which arises at or about a certain period in the life of the individual, successful achievement of which leads to his happiness and to success with later tasks, while failure leads to unhappiness in the individual, disapproval by society, and difficulty with later tasks."

- I. Developmental Tasks of Infancy and Early Childhood (to age 6)
 - 1. Learning to walk
 - 2. learning to take solid foods
 - 3. Learning to talk
 - 4. Learning to control the elimination of body wastes
 - Learning sex differences and sexual modesty
- II. Developmental Tasks of Middle Childhood (age 6-12)
 - 1. Learning physical skills necessary for ordinary games
 - 2. Building wholeseme attitudes toward one-self as a growing organism
 - 3. Learning to get along with age-mates
 - 4. Learning an appropriate masculine or feminine social role
 - 5. Developing fundamental skills in reading, writing and calculating
 - 6. Developing concepts necessary for every-day living
 - 7. Developing conscience, morality, and a scale of values
 - 8. Achieving personal independence
 - 9. Developing attitudes toward social groups and institutions
- III. Developmental Tasks of Adolescence (age 12 to late teens)
 - 1. Achieving new and more mature relations with age-mates of both sexes.
 - 2. Achieving a masculine or feminine social role
 - 3. Accepting one's physique and using the body effectively
 - 4. Achieving emotional independence of parents and other adults

- 5. Achieving assurance of economic independence
- 6. Scleeting and preparing for an occupation
- 7. Preparing for marriage and family life
- 8. Developing intellectual skills and concepts necessary for civic competence
- 9. Pesiring and achieving socially responsible behavior
- 10. Acquiring a set of values and an ethical system as a guide to behavior
- IV. Developmental Tasks of Early Adulthood (late teens to mid-40's)
 - 1. Selecting a mate
 - 2. Learning to live with a marriage partner
 - 3. Starting a family
 - 4. Rearing children
 - 5. Managing a home
 - 6. Getting started in an occupation
 - 7. Taking on civic responsibility
 - 8. Finding a congenial social group
- V. Developmental Tasks of Middle Age (approx. 40-65)
 - Achieving adult civic and social responsibility
 - 2. Establishing and maintaining an economic standard of living
 - 3. Assisting teen-age children to become responsible and happy adults
 - 4. Developing adult leisure-time activities
 - 5. Relating oneself to one's spouse as a person
 - 6. Accepting and adjusting to the physiological changes of middle age
 - 7. Adjusting to ageing parents
- VI. Developmental Tasks of Later Maturity (65 and over)
 - 1. Adjusting to decreasing physical strength and health
 - 2. Adjustment to retirement and reduced income
 - 3. Adjusting to death of spouse
 - 4. Establishing an explicit affiliation with one's age group
 - 5. Meeting social and civic obligations
 - 6. Establishing satisfactory physical living arrangements

Utilizing the checklists within this booklet, the teacher is able to make some observations as to the child's learning style.

The summary sheets entitled "Directed Classroom Observation" and "Three Aspects of Learning Style" should help the classroom turcher describe in a few short sentences the appropriate observations and order thece observations into a framework. This fremework then is helpful in planning classroom strategles. The teacher has observed for relevant factors and can then decide what alterations and modifications or adjustments need to be made in the learning program to assist the pupil in meeting his learning needs.

The to

cache	r should consider altering the variables of:
1.	Modality of presentation
	Would the pupil learn better given oral directions or auditory clues?
	Would he learn better if given visual clues or a demonstration of what the task entails?
2.	Nature of the task
	Can I alter the task so that the pupil can evidence mastery?
	Does he need to:
	recognizeidentify
	discriminatesequentialize
	analyzesynthesize
	memorize
3.	What is the modality of required performance?
	Spoken (oral response)
	Visual-motor response (gesturing, marking, drawing, writing, etc.)

SUMMARY OF OBSERVATIONS

Factors: Three Aspects of Learning Style

1. Sensory factors
Modalities

II. Human interactions

III. Timing - "interventions"

^{*}Refer to Learning Styles, an I/D/E/A publication (See Bibliography)

SUMMARY OF OBSERVATIONS

Factors: Three Aspects of Learning Style

1. Sensory factors

Modalities

II. Human interactions

III. Timing - "interventions"

^{*}Refer to Learning Styles, an I/D/E/A publication (See Bibliography)

3.

PROVISION FOR LEARNING STYLES INVENTORY

This questionnaire asks you a number of questions concerning the unit in which you teach. There are no right or wrong answers. The way you see it is the important thing.

In the appropriate answer space, write in the number from 1 to 6 for each item. Choose the numbers you write from the answer scale printed at the top of each page.

Please complete the personal information requested below. Names are not necessary; information will be compiled for the school as a whole.

Assignment (circle one): K 1 2 3 4 5 6 other_____

School:

3.

	Number	of	years	taught	in thi	s school:		
	1 2	2 3	4 5	6 7	8 9	10 over 10		
				<u>A1</u>	ISWER S	CALE		
1		2		3 /		4 /	5 /	6
non	cticalle; to a y low ree	•	Not very	(or	deratel n the v side)		much	Extremely; To a very high degree
1.	studer	it h	as per			insure that established		1.
2.	(throuto ins	igh o sure	discus that	sion and each tea	l writt cher i	ty is providen communications fully awards other teach	ation) re of	

relating to the students with whom each has

The degree to which each student is involved in self-assessment procedures and analyses of

developed special rapport.

the assessments.

10e. ____

PROVISION FOR LEADNING STYLES INVENTORY

con	tinued				
		ANSWER SCA	IE		
1	2,	3	4	5 /	6 /
on ver	etically Not e; to a very y low ree	Moderately (on the low side)	(on the	much ?	Extremely; To a very nigh degree
4.	The degree to which increasing respons his learning object	sibility for s	nt accepts selection of	i	4.
5.	The degree to which pates in selection to pursue learning	of learning	nt partici- activities	!	5
6.	The degree to which learning objective vities in which has	is for the lea	nt can state arning acti-		6
7.	The degree to which members to student gard to complement	groups are i	made with re-	net.	7
8.	The degree to which groups, paired sit study are provided arrangements.	tuations, and	independent		8
9.	The degree to which viding a greater is environments.	ch options ex range of teac	ist for pro- hing-learnin	g	9
10.	The degree to which sidered when stude ing activities:	ch the follow ents are assi	ing are con- gned to lear	n-	
	a. Peer rela	tionships		10	oa.
	b. Achieveme	nt		10)b
	c. Learning	Styles		10)c
	d. Interest	in subject ar	eas	10)d.

e. Self-concept

PROVISION FOR LEARNING STYLES INVENTORY continued

ANSWER SCALE

1/		2	3 /	4	5 /	6
non	etically er to a y low ree	Not verv	Moderately (on the low side)	(on the	Very much	Extremely To a very high degree
11.	variety	of student ent with lea	teachers ac learning obj rning progra	ectives		11.
12.	selecti	on of a ctivi sue each <mark>of</mark>	teachers acties whereby the desired	students		12
13.	develop		teachers se materials wh onents:			
	a.	provision f best throug	or those who h books	learn	1	3a
	b.	provision f best through	or those who h "things"	learn	1	3b
	с.	**	or those who h auditory c		1	3c

GLOSSARY

- 1. cognitive: faculty of knowing, of becoming aware of objects of thought or perception (includes understanding; reasoning)
- 2. cognitive style: often used for learning style
- 3. human interaction: the variables of interpersonal relationships
- 4. Jearning: Method of organizing many perceptions: a pooling of past experiences concerning similar situations and experiences
- 5. learning style: integrating factors that make learning possible so that individual is able to meet learning needs
- 6. perception: the process giving particular meaning and significance to a sensation.

sensory factors (modalities)

- (a) auditory
- (b) visual
- (c) kinesthetic
- (i) multisensory
- 7. reinforcement: modifying behaviors by presenting a reward for a specific situation

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